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(71) Applicant: **Bristol-Myers Squibb Company
345 Park Avenue
New York, N.Y. 10154(US)**

(72) Inventor: **Aruffo, Alejandro
1012 Spruce Street
Edmonds, Washington 98020(US)
Inventor: Hollenbaugh, Diane
9612 12th Avenue N.W.
Seattle, WA 98117(US)
Inventor: Ledbetter, Jeffrey A.
306 N.W. 113th Place
Seattle, WA 98177(US)**

(74) Representative: **Kinzebach, Werner, Dr. et al
Patentanwälte
Reitstötter, Kinzebach und Partner
Postfach 86 06 49
D-81633 München (DE)**

(54) **Soluble ligands for CD40.**

(57) The present invention relates to soluble ligands for the B-cell antigen, CD40, and, in particular, to human gp39 protein and soluble ligands derived therefrom which may be used in methods of promoting B-cell proliferation.

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EUROPEAN SEARCH REPORT

Application Number
EP 93 11 4153

DOCUMENTS CONSIDERED TO BE RELEVANT		
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim
P,X	WO-A-93 08207 (IMMUNEX CORP.) 29 April 1993 * The application in its entirety, specifically Fig. 2 * ---	1-6, 9-11,14, 15, 20-23, 30,33,34
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A	J. EXPER. MED. vol. 175, no. 4, 1 April 1992 pages 1091 - 1101 LEDERMAN S. ET AL. 'Identification of a novel surface protein on activated CD4+ T-cells that induces contact dependent B-cell differentiation' * Summary and Discussion * ---	4,5,9,10
D,A	NATURE vol. 357, no. 6373, 7 May 1992, LONDON pages 80 - 82 ARMITAGE R J ET AL. 'Molecular and biological characterisation of a murine ligand for CD40' ---	
P,X	EMBO JOURNAL vol. 11, no. 12, December 1992, ENGLAND pages 4313 - 4321 HOLLENBAUGH D. ET AL. 'The human T cell antigen gp39...' --- -/--	1-46
The present search report has been drawn up for all claims		
Place of search MUNICH		Date of completion of the search 28 April 1994
Examiner Germinario, C		
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application I : document cited for other reasons A : member of the same patent family, corresponding document		

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Application Number
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DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.5)
A	CURRENT OPINION IMMUNOLOGY vol. 4, no. 3, June 1992, ENGLAND pages 333 - 337 NOELLE R ET AL. 'T helper cells' -----		
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The present search report has been drawn up for all claims			
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